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1   WebQuilt: A proxy-based approach to remote web usability testing   ■

July 2001   **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(2.89 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

WebQuilt is a web logging and visualization system that helps web design teams run usability tests (both local and remote) and analyze the collected data. Logging is done through a proxy, overcoming many of the problems with server-side and client-side logging. Captured usage traces can be aggregated and visualized in a zooming interface that shows the web pages people viewed. The visualization also shows the most common paths taken through the web site for a given task, as well as the optimal p ...

Keywords: Usability evalution, WebQuilt, log file analysis, web proxy, web visualization

2

physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

4   World Wide Web: Using navigation data to improve IR functions in the context of web search
Mark H. Hansen, Elizabeth Shriver
October 2001 **Proceedings of the tenth international conference on Information and knowledge management CIKM '01**
Publisher: ACM Press

Full text available: pdf(2.39 MB)   Additional Information: full citation, abstract, references, citings, index terms

As part of the process of delivering content, devices like proxies and gateways log valuable information about the activities and navigation patterns of users on the Web. In this study, we consider how this navigation data can be used to improve Web search. A query posted to a search engine together with the set of pages accessed during a search task is known as a *search session*. We develop a mixture model for the observed set of search sessions, and propose variants of the classical EM a ...

Keywords: expectation-maximization algorithm, model-based clustering, proxy access logs, query clustering, web searching

5   Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining
Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2
Publisher: ACM Press

Full text available: pdf(341.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

6   VNC, transparently
Jeremy D. Impson
January 2002 **Linux Journal**, Volume 2002 Issue 93
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(15.93 KB)   Additional Information: full citation, abstract, index terms

Gain secure access to your own desktop (in the same state) from anywhere on the network.

7 Video Streaming 2: Distributing streaming media content using cooperative networking

Venkata N. Padmanabhan, Helen J. Wang, Philip A. Chou, Kunwadee Sripanidkulchai

May 2002 **Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video NOSSDAV '02**

Publisher: ACM Press

Full text available: pdf(593.49 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we discuss the problem of distributing streaming media content, both live and on-demand, to a large number of hosts in a scalable way. Our work is set in the context of the traditional client-server framework. Specifically, we consider the problem that arises when the server is overwhelmed by the volume of requests from its clients. As a solution, we propose *Cooperative Networking (CoopNet)*, where clients cooperate to distribute content, thereby alleviating the load on the ...

Keywords: content distribution networks, multiple description coding, peer-to-peer networks, streaming media

8 An Approach to Preserving Sufficient Correctness in Open Resource Coalitions

Orna Raz, Mary Shaw

November 2000 **Proceedings of the 10th International Workshop on Software Specification and Design IWSSD '00**

Publisher: IEEE Computer Society

Full text available: pdf(359.58 KB)
Publisher Site   Additional Information: full citation, abstract, citings

Most software that most people use most of the time needs only moderate assurance of fitness for its intended purpose. Unlike high-assurance software, where the severe consequences of failure justify substantial investment in validation, everyday software is used in settings in which occasional degraded service or even failure is tolerable. Unlike high-assurance software, which has been the subject of extensive scrutiny, everyday software has received only meager attention concerning how good it ...

Keywords: Medium-assurance software, everyday software, fitness for task, fault tolerance, open resource coalitions, sufficient correctness, software homeostasis, distributed component-based software

9 Technical Session: Supporting ubiquitous computing through directory enabled technologies

Michael Richichi, Paul Coen

October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**

Publisher: ACM Press

Full text available: pdf(285.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

Drew has been providing computers to students since 1984. Many universities have ubiquitous computing programs where students receive a laptop computer as part of their educational package. These programs reduce the dependence on and management issues of traditional computer labs, and allow 24x7 computing access to every student at the University. Drew also provides Novell Directory Services (NDS) accounts to all of these students, and utilizes Novell ZENworks to customize software, personalize ...

Keywords: LDAP, ZENworks, directory services, eDirectory, laptop programs,

management, ubiquitous computing

10 Uncovering expectations of web site visitors and building a site that makes discovering IT easy

Warren Mayer, Todd Krupa

November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services SIGUCCS '02**

Publisher: ACM Press

Full text available: pdf(654.80 KB)   Additional Information: full citation, abstract, references, index terms

Two years after transforming its World Wide Web presence and publishing process, Information & Access Technology Services at the University of Missouri-Columbia embarked on developing and publicly documenting another online redesign: the evolution from a "best guess" to "can't miss" site.Armed with 24 months of use data and feedback from surveys and focus groups, IAT Services was able to combine known strengths of the 2000 site and develop solutions from suggestions for the 2002 site. The entire ...

Keywords: Web site, accessibility, advertising, computing, customer service, design, document management, focus groups, graphic design, information technology, news, online information, personalized web content, print publications, statistical reporting, telecommunications, usability, user guides, user interface

11 User-centered security

Mary Ellen Zurko, Richard T. Simon

September 1996 **Proceedings of the 1996 workshop on New security paradigms NSPW '96**

Publisher: ACM Press

Full text available: pdf(881.81 KB)   Additional Information: full citation, references, citings, index terms

Keywords: authorization, security, user-centered

12 Web-based tools, systems and environments: SAWM: a tool for secure and authenticated web metering

Carlo Blundo, Stelvio Cimato

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: pdf(299.29 KB)   Additional Information: full citation, abstract, references, index terms

The aim of a metering system is the accurate measure of the number of accesses to a Web page in order to have feedback on the effectiveness of the advertising on the net. At the present, there are no standard means to measure the exposure of Web pages as well as the impact of online advertising campaigns. Indeed "traditional" metering techniques are afflicted by hit inflation and hit shaving attacks. In this paper we propose a framework to accurately count the number of visits to a Web site rely ...

Keywords: auditing, e-commerce, secure metering

13 Warehousing and mining Web logs

Karuna P. Joshi, Anupam Joshi, Yelena Yesha, Raghu Krishnapuram

November 1999 **Proceedings of the 2nd international workshop on Web information**

and data management WIDM '99
Publisher: ACM Press

Full text available: pdf(1.66 MB)   Additional Information: full citation, abstract, references, citings, index terms

Analyzing Web Logs for usage and access trends can not only provide important information to web site developers and administrators, but also help in creating adaptive web sites. While there are many existing tools that generate fixed reports from web logs, they typically do not allow ad-hoc analysis queries. Moreover, such tools cannot discover hidden patterns of access embedded in the access logs. We describe a relational OLAP (ROLAP) approach for creating a web-log warehouse. This is pop ...

Keywords: Web logs, Web mining, ad hoc analysis, clustering, user interface

14 Application level performance: On the use and performance of content distribution networks
Balachander Krishnamurthy, Craig Wills, Yin Zhang
November 2001 **Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement IMW '01**
Publisher: ACM Press

Full text available: pdf(2.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

Content distribution networks (CDNs) are a mechanism to deliver content to end users on behalf of origin Web sites. Content distribution offloads work from origin servers by serving some or all of the contents of Web pages. We found an order of magnitude increase in the number and percentage of popular origin sites using CDNs between November 1999 and December 2000.In this paper we discuss how CDNs are commonly used on the Web and define a methodology to study how well they perform. A performanc ...

15 Web crawling and measurement: Efficient URL caching for world wide web crawling
Andrei Z. Broder, Marc Najork, Janet L. Wiener
May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**
Publisher: ACM Press

Full text available: pdf(174.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

Crawling the web is deceptively simple: the basic algorithm is (a) Fetch a page (b) Parse it to extract all linked URLs (c) For all the URLs not seen before, repeat (a)-(c). However, the size of the web (estimated at over 4 billion pages) and its rate of change (estimated at 7% per week) move this plan from a trivial programming exercise to a serious algorithmic and system design challenge. Indeed, these two factors alone imply that for a reasonably fresh and complete crawl of the web, step (a) ...

Keywords: URL caching, caching, crawling, distributed crawlers, web crawlers, web graph models

16 A case study in web search using TREC algorithms
Amit Singhal, Marcin Kaszkiel
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press

Full text available: pdf(205.51 KB)   Additional Information: full citation, references, citings, index terms

Keywords: TREC ad-hoc, keyword-based ranking, link-based ranking, search engines

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17 QUORUM: prepaid internet at the University of Zululand

Soren Aalto

November 2002 **Linux Journal**, Volume 2002 Issue 103

Publisher: Specialized Systems Consultants, Inc.

Full text available: [icon] html(21.31 KB)   Additional Information: full citation, abstract, index terms

When net access is expensive, you can't let web surfing break the budget. Here's a system to enforce fair quotas for all.

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18 Query-independent evidence in home page finding

Trystan Upstill, Nick Craswell, David Hawking

July 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: [icon] pdf(258.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

Hyperlink recommendation evidence, that is, evidence based on the structure of a web's link graph, is widely exploited by commercial Web search systems. However there is little published work to support its popularity. Another form of query-independent evidence, URL-type, has been shown to be beneficial on a home page finding task. We compared the usefulness of these types of evidence on the home page finding task, combined with both content and anchor text baselines. Our experiments made use of ...

Keywords: Web information retrieval, citation and link analysis, connectivity

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19 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: [icon] pdf(293.73 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

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20 EOS: exactly-once E-service middleware

German Shegalov, Gerhard Weikum, Roger Barga, David Lomet

August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**

Publisher: VLDB Endowment

Full text available: [icon] pdf(203.26 KB)   Additional Information: full citation, references, index terms

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L3	82731	redirect$	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/11/21 15:34
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